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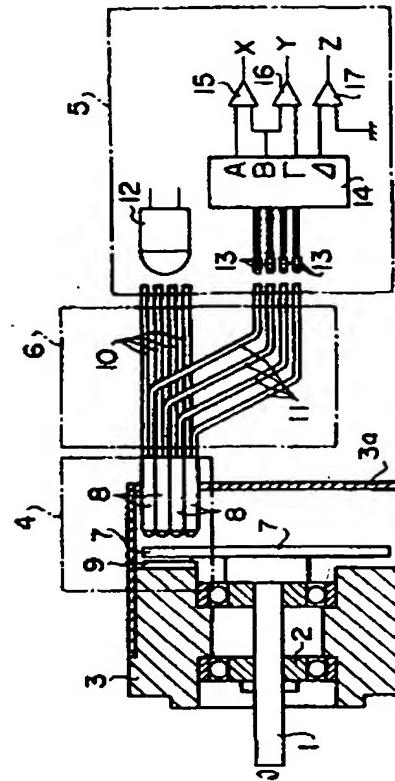
APPLICATION DATE : 23-03-83
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TITLE : METHOD FOR MEASURING OPTICAL
 REFLECTION TYPE DISPLACEMENT



ABSTRACT : PURPOSE: To obtain a titled device which is not influenced by an electric noise by providing a projecting fiber for leading a light from a light source to an object to be measured, and a photodetecting fiber for photodetecting a reflected light from a reflecting body and leading it to a photoelectric converting means.

CONSTITUTION: An optical reflection type pickup 8 is constituted by providing in parallel and coupling the tip part of a projecting fiber bundle 10 and the base end part of a photodetecting fiber bundle 11, and attaching a hemispherical lens to these end faces. In this state, a continuous optical signal from the projecting fiber 10 is sent to the photodetecting fiber bundle 11 as an optical blinking signal in accordance with a rotation of a rotary slit plate 7. Also, this optical blinking signal passes through each photodetecting fiber bundle 11 from each reflection type pickup 8, is sent to a photodetector 13, converted to an electrical signal and amplified. In this way, the measurement can be executed exactly without being influenced by an electric noise.

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